

^{205}Po $Z = 84$ $N = 121$ adopted link ENSDF link

Based on ENSDF from Oct 2022, and mass evaluation from 2020

BE = 1606.425 (0.010) MeV

Qbeta+ = 3.544 (0.011) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-5.325 (0.017)				
205PO 1			0.000 5/2-		1 1.74 H 8
205PO 2			0.143 1/2-		2 310 NS 60
205PO 3			0.154 3/2-		3
205PO 4				0.384 (3/2)-	4
205PO 5			0.669 9/2-		5
205PO 6			0.719 9/2-		6
205PO 7			0.783 7/2-		7
205PO 8				0.799 (5/2)-	8
205PO 9				0.806 (5/2)-	9
205PO 10			0.872 7/2-		10

205PO 11	0.880	13/2+			11 0.645 MS 20
205PO 12				0.902 (7/2)-	12
205PO 13				1.030 (11/2)-	13
205PO 14			1.168 7/2-		14
205PO 15				1.395 (9/2)-	15
205PO 16	1.401	9/2+			16
205PO 17			1.426 9/2-		17
205PO 18			1.461 19/2-		18 57.4 MS 9
205PO 19				1.477	19
205PO 20	1.517	17/2+			20

205PO 21	1.540	9/2+			21
205PO 22				1.553 (11/2)+	22
205PO 23	1.633	5/2+			23
205PO 24			1.651 7/2-		24
205PO 25				1.761 (7/2,9/2)-	25
205PO 26	1.856	11/2+			26
205PO 27	1.890	21/2+			27
205PO 28				1.908 (5/2+)	28
205PO 29	1.912	9/2+			29
205PO 30				1.954 (11/2)-	30

205PO 31				2.149 (7/2)+	31
205PO 32				2.188 (11/2)+	32
205PO 33	2.225	25/2+			33 2.0 NS 7
205PO 34	2.356	9/2+			34
205PO 35				2.483 (7/2,9/2,11/2)+	35
205PO 36	2.712	27/2+			36

205P0	37						2.799	(9/2)+	37
205P0	38		2.827	27/2+					38
205P0	39						2.931	(9/2)+	39
205P0	40		2.981	29/2+					40

205P0	41						3.033	(7/2,9/2)	41
205P0	42		3.047	7/2+					42
205P0	43						3.052	(7/2)+	43
205P0	44					3.087	29/2-		44 115 NS 10
205P0	45		3.161	29/2+					45
205P0	46						3.171	(7/2)+	46
205P0	47		3.206	31/2+					47
205P0	48		3.299	29/2+					48
205P0	49		3.368	31/2+					49
205P0	50					3.509	31/2-		50

205P0	51					3.869	33/2-		51
205P0	52					4.093	33/2-		52
205P0	53						4.137	(35/2+)	53
S-p	=		4.165	(0.014)	-----				
205P0	54						4.454	(37/2-)	54
205P0	55						4.629	(37/2+)	55

S-p = 4.165 (0.014)-----
S-n = 7.252 (0.014)-----
S-2p = 7.313 (0.012)-----
S-2n = 16.353 (0.011)-----
S-alpha= -5.325 (0.017)-----

S+p = -2.207 (0.017)
S+n = -8.738 (0.011)
S+2p = -5.691 (0.011)
S+2n = -15.767 (0.012)
S+alpha = 6.156 (0.014)

gap p = 1.958 (0.022)
gap n = -1.487 (0.018)
gap 2p = 1.622 (0.016)
gap 2n = 0.586 (0.016)
gap alpha = 0.831 (0.022)